

CLIENT SOLUTIONS FROM DEVELOPMENT TO PRODUCTION

&yet



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TOURROUTER

@enterprisesubstack

https://tourrouter-dev.caadev.com/tours/substack/the-beep-boop-tour

CAA tourRouter

LUKE KARRYS

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VIEW PARKED

EDIT TOUR

ADMIN TOUR

AVAILS

KM

MI

The beep boop Tour

Date	Location	Distance	Capacity	Guarantee	Price	Status
10/25/2013 + FRI	<div>Mesa, AZ</div> <div>Mesa Amphitheatre</div>		4,200			4H
10/26/2013 + SAT	<div>Farmington, MO</div> <div>Farmington Missouri Civic Center</div>	1,427mi	2,600	1,000 USD	40.00 / 80.00 USD	CONFIRMED
10/27/2013 + SUN	<div>Dublin, TX</div> <div>Super C Lake Ranch</div>	709mi	1,000		20.00 / 40.00 USD	1H

TOURROUTER

- Single page app (**SPA**)
- App is served by **Node**
- Built on a **Node API**
- Just an **API Client**
- Deployed to **Azure**



TOURROUTER STATS

- **9900** lines of custom JS in **113** files
- **1700** lines of jade in **43** files
- **55.1k** lines (1.8MB) of clientside JS
- **3KB** of HTML

OUR HTML

```
<!DOCTYPE html>
<html>
<head>
  <title>tourRouter</title>
  <!-- Meta tags... -->
  <!-- Splash images... -->
  <!-- Favicons and app icons... -->
  <link rel="stylesheet" href="/app.fd504f36.css">
  <script src="/app.647efd62.js"></script>
```

THE TEAM(S)

API & Ops

Los Angeles

CAA

Web App: 2 devs

Washington, Arizona

&yet

THE FRONT-END

- [Moonboots](#)
- [Express/Resource](#)
- [Browserify](#)
- [npm](#)
- [Jade/Templatizer](#)
- [Backbone](#)
- [Human JavaScript](#)

DEV PROCESS

- **Don't** sacrifice for production performance
- **Guaranteed** cache priming/busting
- Fast **iteration** loops on **local, mobile, development, staging, production**

DEV ENVIRONMENT

- Switches on `process.env.NODE_ENV`
- Concatenates **non-CommonJS** files
- Builds a **Browserified** bundle
- **onBeforeJS** & **onBeforeCSS** hooks

Building JS
Building CSS
Building JS
Building CSS
Building JS
Building CSS
Building JS
Building CSS
Building JS
Building CSS
Building JS

USE A MODULE PATTERN

- We use **CommonJS/Browserify**
- Others use **AMD/RequireJS**
- Use **something**
- Structure **collections, views, models, helpers, pages, templates** as modules
- Saner **development, refactoring, reuse, overall process**

USE npm

- Install client side code from **npm**
- `npm install backbone, async, lodash, moment --save`
- Moonboots can handle **anything else**
- Send [Univeral Module Definition](#) **PRs :)**

CLIENTSIDE MODULES

FROM OUR CODE

```
var BasePage, geospatial, ShowModel,  
    templates =  
    require( ' ../pages/base,  
    ../helpers/geo, ../models/show,  
    ../templates ' )
```

FROM NODE_MODULES/

```
var _, Backbone, moment, async =  
require( ' lodash, backbone, moment,
```

A CLIENT PAGE

```
// pages/saveShow.js  
var Page = require('./base'); // Our base page module  
var Show = require('../models/show'); // Our show module  
var async = require('async'); // async, from npm  
  
// Exporting our saveShow page module  
module.exports = P.extend({  
  initialize: function () {  
    this.model = new Show();  
  },  
  render: function () { async.each( /* ...stuff... */ ); }  
});
```

CONTINUOUS DEPLOYMENTS

A commit is a **deploy**

Build #	Status	Environment	Duration	Commit
963	success	development	6 minutes	b50083ba8956e65c2aacc16093113848f1870093

A branch is an **environment**

App:	app-tourRouter	App:	app-tourRouter
Branch:	development	Branch:	master
isDev:	true	isDev:	false
isProd:	false	isProd:	true
env:	development	env:	staging
Pushed by:	lukekarrys	Pushed by:	gscott

CONTINUOUS DEPLOYMENTS

"Works on my machine"

— Nobody

ALL JS

- Node **API**, Node **App**
- Developer productivity++
- Devs can add features **top to bottom**



lukekarrys

21 commits

caagency / **caa-api**




lukekarrys

793 commits

caagency / **app-tourRouter**

PROD ENVIRONMENT

- **Minifies** by default
- **Caches** for 1 year
- Filename **hashed** based on contents
- GET /app. **fd504f36, 647efd62** .js
200, (from cache), 200, (from cache)
- Application code is on the **device**

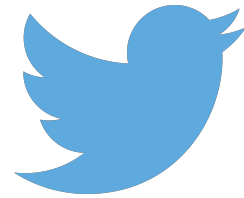
 app.405abd8c.min.js	GET	200 OK	<u>tourrouter-dev.caadev.com...</u> Parser	(from cache)	40 ms 28 ms
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EVERYONE IS HAPPY

- Developers love the **process**
- Users love the **speed**
- Stakeholders love the **timeline**

THANK YOU!

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